



# 2020 South Dakota Winter Wheat Variety Trial Results Selby

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**Cooperator:** Mark Stiegelmeier  
**Location:** 45.495222°, -99.931306°  
**Soil Type:** Highmore-Eakin silt loams, cool, 2-6% slopes  
**Previous crop:** soybeans  
**Tillage:** no-till  
**Row spacing:** 8"  
**Seeding Rate:** 1.2 million PLS/acre  
**Fertilizer:**  
     **-Starter:** 10 gal/acre 10-34-0  
     **-Other:** 250 lb/acre 46-0-0 + 50 lb/acre 21-0-0-24S spring broadcast  
**Herbicide:**  
     **-Burndown:** not reported  
     **-Post:** 24 oz/acre Hat Trick  
**Fungicide:** 2 oz/acre Priaxor (applied with herbicide)  
**Date seeded:** 9/25/2019  
**Date harvested:** 7/29/2020  
**Notes:** Trial was affected by a hail event in early July.

Table 1. 2020 winter wheat variety performance trial results (average of 4 replications) at Selby, SD. Entries are sorted by overall 3-year yield. Varieties yielding in the top 1/3 of each trial are shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2018 (bu/a)	2019 (bu/a)	2020 (bu/a)	2-year (bu/a)	3-year (bu/a)
Cowboy	30	1.3	60.2	12.8	94.6	70.5	77.4	73.9	80.8
Draper	30	1.2	59.2	14.9	96.3	73.9	71.2	72.6	80.5
SY Monument	29	1.2	57.8	13.8	88.2	78.8	73.4	76.1	80.1
Ideal	33	1.0	59.7	14.1	94.6	68.5	73.7	71.1	78.9
WB4462	29	1.0	60.5	14.0	96.9	74.3	64.9	69.6	78.7
Overland	30	1.5	59.4	14.6	88.7	76.9	66.1	71.5	77.2
Winner	30	1.0	60.5	14.5	90.5	70.0	68.4	69.2	76.3
Oahe	33	1.7	59.1	14.5	90.1	72.2	63.8	68.0	75.4
SY Sunrise	27	1.0	59.2	14.0	92.0	70.4	62.6	66.5	75.0
Thompson	33	1.2	60.0	15.2	88.4	71.7	61.3	66.5	73.8
Langin	26	1.7	59.6	13.0	82.9	69.3	68.5	68.9	73.5
WB-Grainfield	28	2.2	60.0	13.6	83.7	66.4	67.6	67.0	72.6
Redfield	29	1.0	60.8	14.7	83.4	64.6	68.3	66.5	72.1
Expedition	31	1.3	59.8	14.5	87.0	63.5	63.3	63.4	71.2
Keldin	32	2.2	58.5	13.6	83.2	61.1	65.6	63.3	69.9
SY 517 CL	28	1.3	61.6	14.3	71.2	66.4	67.3	66.9	68.3
SY Wolverine	27	1.0	60.8	14.9	-	75.9	72.8	74.4	-
WB4595	29	1.0	61.6	13.9	-	76.2	66.2	71.2	-
NW13493	30	1.2	59.3	15.0	-	65.5	64.8	65.1	-
Guardian	30	1.0	60.6	14.0	-	-	76.1	-	-
AP 18AX	29	1.0	59.9	13.2	-	-	74.3	-	-
CP7017CAX	28	1.5	59.7	13.0	-	-	73.4	-	-
Northern	31	1.2	59.2	14.9	-	-	72.8	-	-
DH11HRW55-4	29	1.2	60.2	14.9	-	-	70.8	-	-
Crescent AX	30	1.3	60.4	13.6	-	-	68.8	-	-
WB4309	30	1.3	59.9	15.0	-	-	67.0	-	-
NE14696	32	1.8	58.2	14.9	-	-	66.5	-	-
Flathead	31	1.0	59.9	14.3	-	-	66.4	-	-
14NORD-1	35	1.7	58.6	15.2	-	-	66.1	-	-
CP7909	27	1.7	60.6	12.9	-	-	64.7	-	-
LCH15ACC-8-21	29	1.0	61.2	13.8	-	-	64.6	-	-
CP7010	28	1.0	59.8	14.1	-	-	61.3	-	-
CP7050CA	28	1.2	61.0	15.1	-	-	53.5	-	-
MTF 1435	37	1.8	54.6	14.7	-	-	42.4	-	-
<b>Trial Average#</b>	30	1.4	59.8	14.2	87.7	68.9	68.5	69.0	75.3
<b>LSD (0.05)†</b>	2.0	1.3	1.2	0.8	10.6	6.5	8.9	-	-
<b>C.V. %‡</b>	4.0	-	1.4	4.2	8.7	6.7	9.2	-	-

\* Lodging score: 1, perfectly standing; to 5, completely flat.

# Trial averages may include values from experimental lines that are not reported.

† Value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is considered acceptable.